



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/537,911

06/08/2005

Yasue Nakamura

050370

6716

23850 7590 03/31/2009
KRATZ, QUINTOS & HANSON, LLP
1420 K Street, N.W.
Suite 400
WASHINGTON, DC 20005

EXAMINER

DOAN, ROBYN KIEU

ART UNIT

PAPER NUMBER

3732

MAIL DATE

DELIVERY MODE

03/31/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/537,911	Applicant(s) NAKAMURA, YASUE	
	Examiner Robyn Doan	Art Unit 3732	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 December 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 4-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2, 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 4-108004 (IDS cited reference).

JP '004 discloses a hair curler (figs. 1-4) comprising the essential claimed invention such as having a heating element with a pair of heat conductors (2), wherein the heat conductors forming a plate like member and having arcuate portions (at 11) bent from both ends of the plate like member (applicant is noted that the heat conductors having arcuate portions from both ends at 11 as claimed), a heater (1) fixed to terminal inside of a cap (5) is contained inside a rod having an opening (see fig. 1) at one end so as to seal the opening with the cap.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 17, 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '004 in view of Carter (USP 4,242,567).

JP '004 discloses the essential claimed invention (see figs. 1, 2) however does the heating element having a support plate with an opening, wherein a heater fitted into the opening. Carter discloses a heating element of a hair device (fig. 2) having a support plate (34) with openings (38) and wherein heaters (40) fitted inside each of the opening. It would have been obvious to one having an ordinary skill in the art at the time the invention was made to modify the support plate (10) of JP '004 into the heating element of Carter in order to distribute heat evenly.

Claims 4, is rejected under 35 U.S.C. 103(a) as being unpatentable over JP '004 in view of JP 4-103803 (IDS cited reference).

JP '004 discloses the essential claimed invention except for a portion of the heat conductor in contact with the heater is formed into a projecting surface. JP '803 discloses a hair curler having a heat conductor in contact with the heater is formed into a projecting surface (fig. 1). It would have been obvious to one having an ordinary skill in the art at the time the invention was made to construct the projecting surface as taught by JP 803 into the hair curler of JP '004 for the intended use purpose.

Claims 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over JP '004 in view of Carter and further in view of JP 4-103803 (IDS cited reference).

JP '004 in view of Carter disclose the essential claimed invention except for a portion of the heat conductor in contact with the heater is formed into a projecting

Art Unit: 3732

surface. JP '803 discloses a hair curler having a heat conductor in contact with the heater is formed into a projecting surface (fig. 1). It would have been obvious to one having an ordinary skill in the art at the time the invention was made to construct the projecting surface as taught by JP 803 into the hair curler of JP '004 in view of Carter for the intended use purpose.

Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '00 in view of JP 9-23920 (IDS cited reference).

JP '004 discloses the essential claimed invention except for the rod made of heat resistant plastic formed in an arcuate shape and the diameter at the center being smaller than those at both ends. JP '920 discloses a hair curler having a rod with a diameter at the center being smaller than those at both ends (see fig. 7). It would have been obvious to one having an ordinary skill in the art at the time the invention was made to construct the particular rod as taught by JP '920 into the hair curler of JP '004 for the intended use purpose. And it would have been obvious to one having an ordinary skill in the art at the time the invention was made to construct the rod formed in an arcuate shape, since such a modification would have involved a mere change in the shape of the non critical (specification page 4, lines 2-5) component. A change in shape is generally recognized as being within the level of ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955).

Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '004 in view of Carter and further in view of JP 9-23920 (IDS cited reference).

JP '004 in view of Carter disclose the essential claimed invention except for the rod made of heat resistant plastic formed in an arcuate shape and the diameter at the center being smaller than those at both ends. JP '920 discloses a hair curler having a rod with a diameter at the center being smaller than those at both ends (see fig. 7). It would have been obvious to one having an ordinary skill in the art at the time the invention was made to construct the particular rod as taught by JP '920 into the hair curler of JP '004 in view of Carter for the intended use purpose. And it would have been obvious to one having an ordinary skill in the art at the time the invention was made to construct the rod formed in an arcuate shape, since such a modification would have involved a mere change in the shape of the non critical (specification page 4, lines 2-5) component. A change in shape is generally recognized as being within the level or ordinary skill in the art. In re Rose, 105 USPQ 237 (CCPA 1955).

Claims 11,12 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '004 in view of JP 3045250 (IDS cited reference).

JP '004 discloses the essential claimed invention except for the heat resistant plastic material having a far infrared radioactive substance. JP 3045250 discloses a hair curler having a far infrared radioactive substance. It would have been obvious to one having an ordinary skill in the art at the time the invention was made to construct the far

Art Unit: 3732

infrared substance as taught by JP '250 into the hair curler of JP '004 in order to avoid damage to the hair.

Claims 25, 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '004 in view of Carter and further in view of JP 3045250 (IDS cited reference).

JP '004 in view of Carter disclose the essential claimed invention except for the heat resistant plastic material having a far infrared radioactive substance. JP 3045250 discloses a hair curler having a far infrared radioactive substance. It would have been obvious to one having an ordinary skill in the art at the time the invention was made to construct the far infrared substance as taught by JP '250 into the hair curler of JP '004 in view of Carter in order to avoid damage to the hair

Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '004 in view of JP 2798374 (IDS cited reference).

JP '004 discloses the essential claimed invention except for a plurality of curlers disconnectably connected to a cord extending from a distributor which comprises a controller, a base mount and a container. JP '374 discloses a curler disconnectably connected to a cord extending from a distributor (see figs 1, 4). It would have been obvious to one having an ordinary skill in the art at the time the invention was made to employ the distributor with a cord that is disconnectably with the curler as taught by JP '374 into the device of '004 in order to conveniently curl the hair.

Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP '004 in view of Carter and further in view of JP 2798374 (IDS cited reference).

JP '004 004 in view of Carter disclose the essential claimed invention except for a plurality of curlers disconnectably connected to a cord extending from a distributor which comprises a controller, a base mount and a container. JP '374 discloses a curler disconnectably connected to a cord extending from a distributor (see figs 1, 4). It would have been obvious to one having an ordinary skill in the art at the time the invention was made to employ the distributor with a cord that is disconnectably with the curler as taught by JP '374 into the device of '004 004 in view of Carter in order to conveniently curl the hair.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robyn Doan whose telephone number is (571) 272-4711. The examiner can normally be reached on Mon-Fri 8:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez can be reached on (571) 272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3732

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robyn Doan/
Primary Examiner, Art Unit 3732